

Lesson 11.3 • Squares, Right Triangles, and Areas

Name _____ Period _____ Date _____

1. Find an exact solution for each quadratic equation.

a. $x^2 = 18$

b. $x^2 - 30 = 0$

c. $(x - 5)^2 = 14$

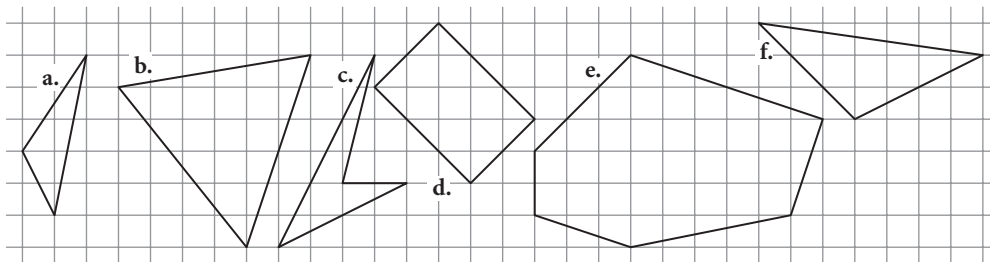
d. $(x + 1)^2 + 3 = 7$

e. $(x + 1)^2 + 3 = 8$

f. $(x - 2)^2 + 4 = 1$

2. Calculate decimal approximations for your solutions to Exercise 1.
Round your answers to the nearest ten-thousandth. Check each answer
by substituting it into the original equation.

3. Find the area of each figure.



4. Find the exact length of each side of these figures from Exercise 3.

a. Figure c

b. Figure d

c. Figure f

5. On grid paper, construct a square with each area, using only
a straightedge.

a. 1 square unit

b. 2 square units

c. 4 square units

d. 5 square units